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THE PLACE FOR SCIENTIFIC DEBATE

## The Gut Microbiota For Health Newsletter **#58**

May 28, 2015

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### Edito

Dear Friends,

In this newsletter, GMFH board of experts member Joël Doré summarizes some of the most interesting research presented at the 5th International Human Microbiome Congress (IHMC) in Luxembourg: how the microbiome shifts over the life span, fecal microbiota transplantation (FMT) for irritable bowel syndrome, and more. This week we also bring you results and analysis of a recent European trial on FMT to treat ulcerative colitis.

How do nursing mothers affect the health of their babies? We feature an article with Maria Carmen Collado of Spain, explaining some surprising factors that influence the human milk microbiome. We also cover an article on cross-fostering mice, which found that the nursing mothers had a greater influence on the pups' microbiota composition than the birth mothers.

As a member of the GMFH website, you can 'like' or 'bookmark' any of the posted articles! We also welcome you to contribute to the ongoing dialogue in the field by posting comments.

The GMFH publishing team

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## IHMC 2015 Highlights: Pettersson, Versalovic, Bercik, de Palma, and Hugenholtz

Topics at the IHMC 2015 meeting in Luxembourg were wide-ranging. Here are some highlights of particular interest:

- Sven Pettersson, Karolinska Institute, on MICROBE COMPARTMENTALIZATION
- James Versalovic, Texas Children's Hospital, on MICROBIOME SHIFTS OVER THE LIFE SPAN
- Premysl Bercik, McMaster University, on THE MICROBIOME & BRAIN DEVELOPMENT AND FUNCTION
- Giada de Palma, McMaster University, on FECAL MICROBIOTA TRANSPLANTATION (FMT) FOR GUT AND PSYCHOLOGICAL SYMPTOMS OF IRRITABLE BOWEL SYNDROME (IBS)
- Philip Hugenholtz, University of Queensland, on FMT FOR CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)



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Written by J. Doré



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## Further Investigation of Fecal Microbiota Transplantation to Treat Ulcerative Colitis

Amsterdam researchers recently published an investigation of fecal microbiota transplantation (FMT) for the treatment of ulcerative colitis (UC). The TURN trial — Transplantation of feces in Ulcerative colitis; Returning Nature’s homeostasis — was a double-blind randomized trial with 48 subjects who had mild to moderately active UC.

Participants received either a healthy donor’s feces or their own feces (i.e. autologous FMT) via naso-duodenal tube.

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## Dr. Maria Carmen Collado, on Factors Influencing the Milk Microbiome

Maria Carmen Collado, of the Institute of Agrochemistry and Food Technology at the Spanish National Research Council (IATA-CSIC), studies microbiota-host interactions.

She spoke at Experimental Biology 2015 at a symposium called ‘An interdisciplinary examination of potential effects of maternal obesity on lactation physiology and the human milk microbiome’. After the session, she spoke with GMFH editors.

“Mothers can transfer the microbiota through delivery, but also through breastfeeding,” says Collado. +1

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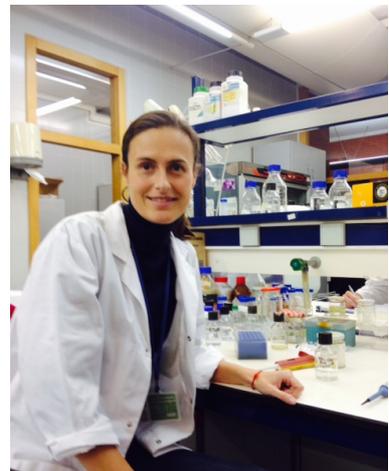
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## Inducing an Early and Sustained Shift in Mouse Gut Microbiota

A long-term goal of gut microbiota research is to find a method of normalizing the microbiota early in life and sustaining it through the lifespan. Researchers from Alabama, USA, have found a method of doing this in mice. They found that cross-fostering — giving pups to a nursing non-birth mother — permanently shifted the pups' microbiota composition.

The study examined two strains of mice: non-obese diabetic (NOD) and non-obese diabetic-resistant (NOR). In litters of newborn pups, half were given to a mother of the opposite strain and half stayed with the birth mother.



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## Fourth International Symposium on Human Gut Microbiota in Health and Disease in Mexico City

2015 marks the fourth consecutive year that the “International Symposium on Human Gut Microbiota in Health and Disease” will take place in vibrant Mexico City, May 29th and 30th, 2015.

This meeting is endorsed by the National Institute of Medical Sciences and Nutrition, The Mexican Gastroenterology Association, The Mexican Association of Nutrition, and The Mexican College of Nutritionists, with the support of Danone Institute.



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